

Complete Listing of Claims

1. (previously amended) A method for protecting a material from termite infestation, comprising treating the material with a composition comprising an effective amount of a compound selected from the group consisting of nootkatone, zizanol, and bicyclovetivenol, wherein said composition is free of vetiver oil, wherein said material without said treatment is susceptible to termite infestation, and wherein the treated material repels or kills termites substantially more than does an otherwise identical material that has not been treated with the compound.
2. (original) A method as in claim 1, wherein the treated material repels termites.
3. (original) A method as in claim 1, wherein the treated material kills termites.
4. (original) A method as in claim 1, wherein the material to be treated is selected from a list comprising soil, substrate, plastics, diatomaceous earth, and any cellulose-containing materials.
5. (original) A method as in claim 1, wherein the compound is nootkatone.
6. (original) A method as in claim 1, wherein the compound is zizanol.
7. (original) A method as in claim 1, wherein the compound is bicyclovetivenol.
8. (original) A method as in claim 1, additionally comprising treating the material with a one or more different compounds selected from the group comprising nootkatone, α -cedrene, zizanol and bicyclovetivenol.

9. (previously amended) A composition for a protective barrier against termite infestation, said barrier composition comprising an effective amount of a compound selected from the group consisting of nootkatone, zizanol and bicyclovetivenol, and a substrate material selected from the group consisting of mulch, soil, and diatomaceous earth, wherein said composition is free of vetiver oil and wherein such treated barrier repels or kills termites substantially more than does an otherwise identical barrier that has not been treated with the compound.
10. (original) A composition as in Claim 9, wherein the substrate material is a mulch.
11. (original) A composition as in Claim 10, wherein the mulch is dried vetiver grass.
12. (original) A composition as in Claim 10, wherein the mulch is another cellulose-containing material.
13. (original) A composition as in Claim 9, wherein the substrate material is soil.
14. (original) A composition as in Claim 9, wherein the substrate material is diatomaceous earth.
15. (original) A composition as in claim 9, wherein the compound is nootkatone.
16. (original) A composition as in Claim 15, wherein the concentration of nootkatone in said barrier is between about 10 $\mu\text{g/g}$ and about 1000 $\mu\text{g/g}$.
17. (original) A composition as in Claim 15, wherein the concentration of nootkatone in said barrier is between about 10 $\mu\text{g/g}$ and about 200 $\mu\text{g/g}$.
18. (original) A composition as in Claim 9, wherein the compound is zizanol.
19. (original) A composition as in Claim 9, wherein the compound is bicyclovetivenol.

20. (original) A composition as in claim 9, additionally comprising treating the material with a one or more different compounds selected from the group comprising nootkatone, α -cedrene, zizanol and bicyclovetivenol.
21. (previously amended) A composition for a protective barrier against termite infestation, said barrier composition comprising an effective amount of a compound selected from the group consisting of nootkatone, zizanol, and bicyclovetivenol, and a wood building material, wherein said wood building material without said compound is susceptible to termite infestation, wherein said composition is free of vetiver oil and wherein the treated wood building material repels or kills termites substantially more than does an otherwise identical wood building material that has not been treated with the compound.
22. (original) A composition as in claim 21, wherein the compound is nootkatone.
23. (original) A composition as in Claim 22, wherein the concentration of nootkatone in said barrier is between about 10 $\mu\text{g/g}$ and about 1000 $\mu\text{g/g}$.
24. (original) A composition as in Claim 22, wherein the concentration of nootkatone in said barrier is between about 10 $\mu\text{g/g}$ and about 200 $\mu\text{g/g}$.
25. (original) A composition as in Claim 21, wherein the compound is zizanol.
26. (original) A composition as in Claim 21, wherein the compound is bicyclovetivenol.
27. (previously amended) A composition as in claim 21, additionally comprising treating the material with a one or more different compounds selected from the group comprising nootkatone, α -cedrene, zizanol and bicyclovetivenol.

28. (previously amended) A composition for a protective barrier against termite infestation, said barrier composition comprising an effective amount of a compound selected from the group consisting of zizanol and bicyclovetivenol, and a substrate material, wherein said substrate material without said compound is susceptible to termite infestation, wherein said composition is free of vetiver oil, and wherein such treated barrier repels or kills termites substantially more than does an otherwise identical barrier that has not been treated with the compound.
29. (previously added) A composition as in claim 28, additionally comprising treating the material with a one or more different compounds selected from the group comprising nootkatone, α -cedrene, zizanol and bicyclovetivenol.